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**EIC 3600**

**STIC Database Tracking Number: 197708**

**To: Tom Beach  
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Wednesday, May 24, 2006**

**Case Serial Number: 09/659382**

**From: Etelka R. Griffin  
Location: EIC 3600  
KNOX/4B68  
Phone: 571-272-4230**

**Etelka.griffin@uspto.gov**


## **Search Notes**

### **LITIGATION-5802748**

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679851 (08) 5802748 September 8, 1998

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5802748

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September 8, 1998

Tiered trenching backhoe system

**REISSUE:** September 8, 2000 - Reissue Application filed Ex. Gp.: 3625; Re. S.N. 09/659,382 (O.G. October 15, 2002)

**APPL-NO:** 679851 (08)


**FILED-DATE:** July 15, 1996

**GRANTED-DATE:** September 8, 1998

**CORE TERMS:** syncline, fluke, triangular, coupler, welded, removably, prior art, trihedral, interior, projecting ...

**ENGLISH-ABST:**

A new Tiered Trenching Backhoe System for creating a dual tiered trench which allows one service utility to be elevated above another service utility thereby preventing contact of the two service utilities resulting in increased safety. The inventive device includes a syncline plate with an interior angle of approximately 140 degrees, a first and second triangular coupler welded at one end to the syncline plate removably coupling to a pair of existing tooth shanks of a backhoe bucket, a first and second fluke welded to the syncline plate opposite of the triangular couplers, a first and second trihedral support members welded to the interior portion of syncline plate providing support, and a pair of replaceable teeth removably secured to the first and second flukes.

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inning	economy	decline	economist
increase	inflation	shot	fell
inventory	quarter	restaurant	scored
New York	engine	game	played
playoff	price	Labor Department	host

Syntax	Def
and	and
or	or
w/N	withi
not w/N	not v
pre /N	prec
w/p	in se
not w/p	not i
w/seg	in se
not w/seg	not i
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1 / 1 PLUSPAT - @QUESTEL-ORBIT - image

**Patent Number :**

US5802748 A 19980908 [US5802748]

**Title :**

(A) Tiered trenching backhoe system

**Inventor(s) :**

(A) HAAGENSTAD RONALD G (US)

**Application Nbr :**

US67985196 19960715 [1996US-0679851]

**Priority Details :**

US67985196 19960715 [1996US-0679851]

**Intl Patent Class :**

(A) E02F-003/96

**IPC Advanced All :**

E02F-003/96 [2006-01 A - I R M EP]; E02F-009/28 [2006-01 A - I R M EP]

**IPC Core All :**

E02F-003/04 [2006 C - I R M EP]; E02F-009/28 [2006 C - I R M EP]

**EPO ECLA Class :**

E02F-003/96

E02F-009/28A2

**EPO ICO Class :**

P02F-009/28K

**US Patent Class :**

ORIGINAL (O) : 037405000; CROSS-REFERENCE (X) : 037403000 037903000  
414724000

**Document Type :**

Corresponding document

**Citations :**

US2838856; US2864184; US2896343; US3181256; US3307277; US3478449;  
US3942271; US4009529; US4038766; US4085530; US4360980; US4550512;  
US4704811; US5212897

**Publication Stage :**

(A) United States patent

**Abstract :**

A new Tiered Trenching Backhoe System for creating a dual tiered trench which allows one service utility to be elevated above another service utility thereby preventing contact of the two service utilities resulting in increased safety. The inventive device includes a syncline plate with an interior angle of approximately 140 degrees, a first and second triangular coupler welded at one end to the syncline plate removably coupling to a pair of existing tooth shanks of a backhoe bucket, a first and second fluke welded to the syncline plate opposite of the triangular couplers, a first and second trihedral support members welded to the interior portion of syncline plate providing support, and a pair of replaceable teeth removably secured to the first and second flukes.

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**Patent Number :**

US5802748 A 19980908 [US5802748]

**Application Number :**

US67985196 19960715 [1996US-0679851]

**Action Taken :**

20021015 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20000908



**Update Code :**  
2003-22

1 / 1 CRXX - @CLAIMS/RRX

**Patent Number :**

5,802,748 A 19980908 [US5802748]

**Patent Assignee :**

Haagenstad, Ronald G

**Actions :**

20000908 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20021015

REISSUE REQUEST NUMBER: 09/659382

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3625

Reissue Patent Number:

1 / 1 INPADOC - @INPADOC

**Patent Number :**

US 5802748 A 19980908 [US5802748]

**Title :**

TIERED TRENCHING BACKHOE SYSTEM

**Inventor(s) :**

HAAGENSTAD RONALD G [US]

**Patent Assignee (Words) :**

HAAGENSTAD RONALD G [US]

**Application Details :**

US 679851/96-A 19960715 [1996US-0679851]

**Priority Details :**

US 679851/96-A 19960715 [1996US-0679851]

**Intl. Patent Class. :**

E02F-003/96

**WPI Cross Reference :**

1998-504961 (G)

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**Patent Number :**

US5802748 A 19980908 [US5802748]

**Application Number :**

US67985196 19960715 [1996US-0679851]

**Action Taken :**

20021015 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20000908

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